

REFERENCE DESIGNATOR	DESCRIPTION	VALUE	SIZE	MANUFACTURER	DIGI-KEY NUMBER	QUANTITY	ROHS (DIGI-KEY)	REACH STATUS (DIGI-KEY)
C7, C9, C10, C11, C12	10 μ F \pm 10% 100V Ceramic Capacitor X7R 1210 (3225 Metric)	10 μ F	1210	TDK	C3225X7R2A106K250AC	5	ROHS3 Compliant	REACH Unaffected
C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44	4.7 μ F \pm 10% 100V Ceramic Capacitor X5R 0805 (2012 Metric)	4.7 μ F	0805	TDK	C2012X5R2A475K125AC	24	ROHS3 Compliant	REACH Unaffected
C45, C46, C47, C48, C49, C50, C51, C52, C81, C82, C83, C84, C94, C95, C144, C145, C146, C149, C152, C153, C154	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0201	0.1 μ F	0201	MuRata	GRM033Z71C104KE14D	21	ROHS3 Compliant	REACH Unaffected
C53, C54, C55, C56	Multi-Layer Ceramic Capacitor 470nF 10V X7R \pm 10% 0402 Paper T/R	470nF	0402	Murata	GRT155R71A474KE01D	4	ROHS3 Compliant	REACH Unaffected
C57, C58, C59, C60, C61, C62, C63, C64, C65	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, 1210	10 μ F	1210	Samsung Electro- Mechanics	CL32B106KBJNNWE	9	ROHS3 Compliant	REACH Unaffected
C66, C67, C68, C69, C120, C123, C124	CAP, CERM, 2.2 μ F, 16 V, +/- 10%, X5R, 0402	2.2 μ F	0402	TDK	C1005X5R1C225K050BC	7	ROHS3 Compliant	REACH Unaffected
C70, C71, C72, C73, C89, C90, C91, C92	CAP, CERM, 100 pF, 25 V, +/- 5%, C0G/NP0, 0201	100pF	0201	MuRata	GRM033R71E101JA01D	8	ROHS3 Compliant	REACH Unaffected
C85, C86, C87, C88	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0402	0.1 μ F	0402	MuRata	GRM155R71C104KA88D	4	ROHS3 Compliant	REACH Unaffected
C93, C98	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0201	0.1 μ F	0201	Passive Plus	0201BB104KW160	2	ROHS3 Compliant	REACH Unaffected

C96	100pF ±1% 25V Ceramic Capacitor C0G, NP0 0201 (0603 Metric)	100pF	0201	Johanson	250R05L101FV4T	1	ROHS3 Compliant	REACH Unaffected
C97, C107, C111	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0201	1000pF	0201	MuRata	GRM033R71C102KA01D	3	ROHS3 Compliant	REACH Unaffected
C103	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0201	1uF	0201	Samsung Electro-Mechanics	CL03A105MP3NSNC	1	ROHS3 Compliant	REACH Unaffected
C106, C114, C147, C148, C150, C151	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X5R, 0201	2.2uF	0201	MuRata	GRM033R61A225KE47D	6	ROHS3 Compliant	REACH Unaffected
C108	CAP, CERM, 100 pF, 16 V, +/- 10%, X7R, 0201	100pF	0201	MuRata	GRM033R71C101KA01D	1	ROHS3 Compliant	REACH Unaffected
C118	2.2uF @ ±10% 100V Ceramic Capacitor X7R 15% 1206 (3216 Metric)	2.2uF	1206	AVX	12061C225KAT2A	1	ROHS3 Compliant	REACH Unaffected
C119	Cap Ceramic 100nF 100V X7R 10% SMD 0603 125°C Paper T/R	100nF	0603	KYOCERA AVX	06031C104K4T2A	1	ROHS3 Compliant	REACH Unaffected
C121, C122, C125	Multi-Layer Ceramic Capacitor 10uF 16V X5R ±10% 0603 Paper T/R	10uF	0603	Murata	GRT188R61C106KE13D	3	ROHS3 Compliant	REACH Unaffected
C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142	1 uF ±10% 100V Ceramic Capacitor X7R 0603 (1608 Metric)	1uF	0603	TDK	C1608X7R2A105K080AC	16	ROHS3 Compliant	REACH Unaffected
C143	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	10uF	0402	MuRata	GRM155R61A106ME21D	1	ROHS3 Compliant	REACH Unaffected
C155	CAP, CERM, 2.2 uF, 16 V, +/- 20%, X5R, 0603	2.2uF	0603	Würth Elektronik	885012106018	1	ROHS3 Compliant	REACH Unaffected

J1, J2, J3, J4, J5, J6, J7	PC Pin Terminal Connector Through Hole Gold 0.060" (1.52mm) Dia		CONN_PIN	Mill-Max	5191-0-00-15-00-00-03-0	7	ROHS3 Compliant	REACH Unaffected
J8	Header, 2 mm, 8x1, Gold, TH		Header, 2mm, 8x1, TH	Würth Elektronik	62000811121	1	ROHS3 Compliant	REACH Unaffected
L1, L2	Unshielded 2 Coil Inductor Array Inductance - Connected in Series 5.4 µH Inductance - Connected in Parallel 1.25mOhm DC Resistance (DCR) - Parallel Nonstandard, 4 Lead	5.4uH	SMT_IND_26MM8_13MM8	TDK	ERUC23-2R8K	2	ROHS3 Compliant	REACH Unaffected
L3, L4	Ferrite Bead, 60 ohm @ 100 MHz, 3 A, 0603	60 ohm	0603	Würth Elektronik	742792602	2	ROHS3 Compliant	REACH Unaffected
MP1, MP2	Nylon M2 X .4 Cheese Head Slotted Machine Screw		M2_NYLON_SCREW	Essentra Components	50M020040D006	2	ROHS3 Compliant	REACH Unaffected
Q1	MOSFET, N-CH, 12 V, 1.6 A, YZB0004AEAE (DSBGA-4)	12V	YZB0004AEAE	Texas Instruments	CSD13201W10	1	ROHS3 Compliant	REACH Unaffected
R1, R2, R3, R4, R21, R22, R23, R24	RES, 4.70 k, 1%, 0.05 W, 0201	4.70k	0201	Vishay-Dale	CRCW02014K70FKED	8	ROHS3 Compliant	REACH Unaffected
R5, R6, R7, R8	RES, 2.00 k, 1%, 0.05 W, 0201	2.00k	0201	Vishay-Dale	CRCW02012K00FKED	4	ROHS3 Compliant	REACH Unaffected

R9, R11, R13, R15	Res Thick Film 0201 110 Ohm 1% 0.05W(1/20W) ±200ppm/C Pad SMD Automotive T/R	110	0201	Panasonic Electronic Components	ERJ-1GNF1100C	4	ROHS3 Compliant	REACH Unaffected
R10, R12, R14, R16, R17, R18, R19, R20, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R96, R97, R98, R99	RES, 0, 5%, 0.05 W, 0201	0	0201	Vishay-Dale	CRCW02010000Z0ED	25	ROHS3 Compliant	REACH Unaffected
R27, R28, R31, R32	0.2 mOhms ±1% 3W Chip Resistor Wide 1612 (3831 Metric), 1216 Anti- Sulfur, Automotive AEC- Q200, Current Sense, Pulse Withstanding Metal Element	200µ	1612	Vishay Dale	WSK1216L2000FEA	4	ROHS3 Compliant	REACH Unaffected
R33, R34, R35, R36, R41, R42, R43, R44	RES, 10.0, 1%, 0.063 W, AEC- Q200 Grade 0, 0402	10.0	0402	Vishay-Dale	CRCW040210R0FKED	8	ROHS3 Compliant	REACH Unaffected
R37, R38, R39, R40	RES, 100, 1%, 0.05 W, 0201	100	0201	Vishay- Semiconductor	CRCW0201100RFKED	4		
R46	RES, 100 k, 0.5%, 0.063 W, AEC-Q200 Grade 0, 0402	100k	0402	Vishay-Dale	CRCW0402100KDHEDP	1	ROHS3 Compliant	REACH Unaffected
R47	RES, 3.30 k, 1%, 0.05 W, 0201	3.30k	0201	Yageo America	RC0201FR-073K3L	1	ROHS3 Compliant	REACH Unaffected
R49	RES, 5.10 k, 1%, 0.05 W, 0201	5.10k	0201	Yageo America	RC0201FR-075K1L	1	ROHS3 Compliant	REACH Unaffected
R55, R56, R58, R85, R86	RES, 2.20 k, 1%, 0.05 W, 0201	2.20k	0201	Yageo America	RC0201FR-7D2K2L	5	ROHS3 Compliant	REACH Unaffected
R60	RES, 768 k, 1%, 0.05 W, 0201	768k	0201	Yageo America	RC0201FR-07768KL	1	ROHS3 Compliant	REACH Unaffected

R61, R62	RES, 100 k, 1%, 0.05 W, 0201	100k	0201	Yageo America	RC0201FR-07100KL	2	ROHS3 Compliant	REACH Unaffected
R65	RES, 5.62 k, 1%, 0.05 W, 0201	5.62k	0201	Yageo America	RC0201FR-075K62L	1	ROHS3 Compliant	REACH Unaffected
R66, R68	RES, 15.0, 1%, 0.05 W, 0201	15.0	0201	Yageo America	RC0201FR-0715RL	2	ROHS3 Compliant	REACH Unaffected
R67	RES, 1.43 k, 1%, 0.05 W, 0201	1.43k	0201	Yageo America	RC0201FR-071K43L	1	ROHS3 Compliant	REACH Unaffected
R69	RES, 1.13 k, 1%, 0.05 W, 0201	1.13k	0201	Yageo America	RC0201FR-071K13L	1	ROHS3 Compliant	REACH Unaffected
R87	RES, 3.60 k, 1%, 0.05 W, 0201	3.60k	0201	Yageo America	RC0201FR-073K6L	1	ROHS3 Compliant	REACH Unaffected
R88	22 kOhms \pm 0.5% 0.05W, 1/20W Chip Resistor 0201 (0603 Metric) Moisture Resistant Thick Film	22k	0201	YAGEO	RC0201DR-0722KL	1	ROHS3 Compliant	REACH Unaffected
R91	RES, 5.49 k, 1%, 0.05 W, 0201	5.49k	0201	Yageo America	RC0201FR-075K49L	1	ROHS3 Compliant	REACH Unaffected
R92	RES, 9.53 k, 1%, 0.05 W, 0201	9.53k	0201	Yageo America	RC0201FR-079K53L	1	ROHS3 Compliant	REACH Unaffected
R93	RES, 1.00 k, 1%, 0.05 W, 0201	1.00k	0201	Yageo America	RC0201FR-071KL	1	ROHS3 Compliant	REACH Unaffected
R94	RES, 2.00 k, 1%, 0.05 W, 0201	2.00k	0201	Yageo America	RC0201FR-7D2KL	1	ROHS3 Compliant	REACH Unaffected
R95	RES, 1.00 k, 1%, 0.05 W, 0201	1.00k	0201	Yageo America	RC0201FR-7D1KL	1	ROHS3 Compliant	REACH Unaffected
RT1	\pm 1% tolerance 10k? linear thermistor available in 0402 and 0603 package options 2-X1SON -40 to 125	10k	X1SON	Texas Instruments	TMP6131DECR	1	ROHS3 Compliant	REACH Unaffected
U1, U2, U3, U4	General Purpose Dual-Channel Functional Isolators		VSON8	Texas Instruments	ISO6521FREUR	4	ROHS3 Compliant	REACH Unaffected

U5, U6, U7, U8, U9, U10, U11, U12	LMG3100R017		VQFN-FCRLF15	Texas Instruments	LMG3100R017VBER	8	ROHS3 Compliant	REACH Unaffected
U13	Four-channel two-input 1.65V to 3.6V AND gate 14-WQFN		WQFN14	Texas Instruments	SN74LVC08ABQAR	1	ROHS3 Compliant	REACH Unaffected
U14, U15, U16, U17	-4-V to 110-V, Bidirectional, Ultra-Precise Current Sense Amplifier With Enhanced PWM Rejection		SOT-23-8	Texas Instruments	INA241A5IDDF	4	ROHS3 Compliant	REACH Unaffected
U18	Real-Time Microcontrollers		VQFN56	Texas Instruments	TMS320F28P550SJ6RSHR	1	ROHS3 Compliant	REACH Unaffected
U19	Low-power, 1-M? RIN, 20-µA IQ, small-size attenuating difference amplifier 6-SC70		SC70-6	Texas Instruments	INA500AIDCKR	1	ROHS3 Compliant	REACH Unaffected
U22	3-V to 65-V Input, 1-V to 13-V Output, 600-mA Synchronous Buck Converter Power Module in a HotRod QFN Package		VQFN-HR9	Texas Instruments	TPSM365R6V5RDNR	1	ROHS3 Compliant	REACH Unaffected
U23	300-mA, Ultra-Low-Noise, Low-IQ, High PSRR LDO		SOT23-5	Texas Instruments	TPS7A2033PDBVR	1	ROHS3 Compliant	REACH Unaffected
R45, R51	RES, 0, 5%, 0.05 W, 0201	0	0201	Vishay-Dale	CRCW02010000Z0ED	1	ROHS3 Compliant	REACH Unaffected

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Last updated 10/2025